BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Improvements to Roads, drains at Ashraya layout Roads in Ward No. 11, Kuvempunagara.**

Sl	Description of item	Unit	No	L	B	D	Qty	Est Cost Rs. Rate	2500000.00 Amount
1	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17**	Sqm							
	Ashraya Layout Cross Roads 1		1	30.00	4.80		144.00		
	Ashraya Layout Cross Roads 2		1	87.00	4.30		374.10		
	Ashraya Layout Cross Roads 3		1	22.00	4.40		96.80		
	Ashraya Layout Cross Roads 4		1	40.00	5.00		200.00		
	Ashraya Layout Cross Roads 5		1	26.00	5.10		132.60		
	Ashraya Layout Cross Roads 6		1	27.00	4.80		129.60		
	Ashraya Layout Cross Roads 7		1	26.00	4.30		111.80		
	Basic Rate	25.00					**1188.90**	26.50	**31506.00**
	Area Weightage @ 6%	1.50							
	Total	**26.50**							
2	KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Material **Page No. 154, Item No. 20.4.2 PWD SR 2016-17**	Cum							
	For Filling of Drains		2	30.00	0.45	0.40	10.80		
			2	87.00	0.45	0.45	35.24		
			2	22.00	0.45	0.40	7.92		
			2	40.00	0.45	0.40	14.40		
			2	26.00	0.45	0.40	9.36		
			2	27.00	0.45	0.45	10.94		
			2	26.00	0.45	0.45	10.53		
	For Road Work		1	30.00	5.00	0.15	22.50		
			1	87.00	4.30	0.15	56.12		
			1	22.00	4.40	0.15	14.52		
			1	40.00	5.00	0.15	30.00		
			1	26.00	5.10	0.15	19.89		
			1	27.00	5.00	0.15	20.25		
			1	26.00	4.30	0.15	16.77		
	Basic Rate	1571.00					**279.23**	1665.26	**464982.00**
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	For Road Work		1	30.00	5.00	0.15	22.50		
			1	87.00	4.30	0.15	56.12		
			1	22.00	4.40	0.15	14.52		
			1	40.00	5.00	0.15	30.00		
			1	26.00	5.10	0.15	19.89		
			1	27.00	5.00	0.15	20.25		
			1	26.00	4.30	0.15	16.77		
	Basic Rate	4867.00					**180.05**	5159.02	**928856.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
4	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse aggregate @**	Cum							
	For Road Work		1	30.00	5.00	0.125	18.75		
			1	87.00	4.30	0.125	46.76		
			1	22.00	4.40	0.125	12.10		
			1	40.00	5.00	0.125	25.00		
			1	26.00	5.10	0.125	16.58		
			1	27.00	5.00	0.125	16.88		
			1	26.00	4.30	0.125	13.98		
	Basic Rate	5197.00					**150.04**	5508.82	**826530.00**
	Area Weightage @ 6%	311.82							
	Total	**5508.82**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Sub Total								2251874.00
	KRIDL Charges @ 10%								225187.00
	Labour Cess @ 1%								22519.00
	Add for unforseen and rounding off	L/S							420.00
								Total	2500000.00
Rupees Twenty Five lakhs Only									

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2017-18 24.10% Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Twenty Five lakhs only
Head of A/c. P-1878
Div. Ref. No. 84/17-18 Date 14/12/17
AE 14/12
EE(BTP) 14/12

Technical Sanction
Accorded For 25.00 lakhs only
Head of A/C. P1878
CER NO : 596/17-18 Dt. 02/02/18
LTA CE (YNK)